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ATTORNEY DOCKET NO. APPLICATION NO. FIRST NAMED INVENTOR FILING DATE CONFIRMATION NO. 01/26/2001 50671-P021US-10016435 09/770,427 Semih Secer 7055 EXAMINER 22878 7590 AGILENT TECHNOLOGIES, INC. JACOBS, LASHONDA T INTELLECTUAL PROPERTY ADMINISTRATION, LEGAL DEPT. ART UNIT PAPER NUMBER P.O. BOX 7599 M/S DL429 2157 LOVELAND, CO 80537-0599

DATE MAILED: 05/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/770,427	SECER, SEMIH
	Examiner	Art Unit
	LaShonda T. Jacobs	2157
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
<ul> <li>1) ⊠ Responsive to communication(s) filed on <u>March 20, 2006</u>.</li> <li>2a) ⊠ This action is FINAL. 2b) ⊠ This action is non-final.</li> <li>3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.</li> </ul>		
Disposition of Claims		
<ul> <li>4)  Claim(s) 1-35 and 37-64 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-35 and 37-64 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>		
Application Papers		
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>		
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	

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#### **DETAILED ACTION**

## Response to Amendment

This is a Final Office Action in response to Applicant's Amendment/Request for Reconsideration filed on March 20, 2006. Claims 1-35 and 37-64 are presented for further examination.

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-35 and 37-64 are rejected under 35 U.S.C. 102(b) as being anticipated by Vaishnavi et al (hereinafter, "Vaishnavi", U.S. Pat. No. 5,734,642).

As per claim 1, Vaishnavi discloses a method for implementing a state model for managing a network coupled to a central management system, said method comprising:

- presenting a user interface a management system to enable a user to define at least one state model for managing at least one network element based on a determined state of said at least one network element (col. 4, lines 28-40);
- presenting a user interface for said central management system to enable a user to define at least one poll service that includes at least one of said at least one state model (col. 5, lines 3-16 and col. 6, lines 26-42); and

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executing said at least one poll service to manage said at least one network element (col.
5, lines 43-56).

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As per claim 35, Vaishnavi discloses a method for enabling state-based management of a network, wherein network elements are managed based on their state, said method comprising:

- receiving input from a user at a management system to define at least one state model for managing at least one network element based on a determined state of said at least one network element (col. 4, lines 28-40);
- receiving input from a user at said management system to define at least one poll service that includes at least one of said at least one state model (col. 5, lines 3-16 and col. 6, lines 26-42);
- distributing said at least one poll service including said at least one state model to at
  least one distributed polling gateway that is communicatively coupled with said at least
  one network element (col. 5, lines 3-16);
- executing said at least one poll service at said at least one distributed polling gateway to manage said at least one network element (col. 5, lines 43-56); and
- wherein said management system is a central management system (col. 4, lines 5-22).

As per claim 48, Vaishnavi discloses a system for managing network elements based on their state, said system comprising:

- at least one network element (col. 3, lines 57-65);
- one or more distributed gateways for monitoring said at least one network element, said
   one or more distributed gateways communicatively coupled to a central management

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system between said at least one network element and said central management system (col. 4, lines 5-22 and col. 5, lines 3-16); and

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• at least one state model and managing said at least one network element based on a determined state of said at least one network element, said at least one state model capable of being dynamically defined during runtime (col. 6, lines 26-39).

As per claim **59**, Vaishnavi discloses a method for performing state-based management of a network, wherein network elements are managed based on their state, said method comprising:

• executing, on at least one distributed gateway located between the central management system and the network elements at least one user-defined state model for managing at least one network element based on a determined state of said at least one network element, wherein said executing at least one user-defined state model includes polling said at least one network element for data, evaluating said data to determine whether a user-defined state transition condition is satisfied, and triggering a state transition if said user-defined state transition condition is satisfied for a user-defined number of consecutive polls of said at least one network element (col. 4, lines 5-22 and col. 5, lines 3-16).

As per claim 64, Vaishnavi discloses a system for managing at least one network element comprising:

- at least one network element (col. 3, lines 57-65);
- at least one gateway for monitoring said at least one network element, said at least one gateway communicatively coupled to a central management system between said at

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least one network element and said central management system (col. 4, lines 5-22 and col. 5, lines 3-16); and

• at least one state model executing on said at least one gateway for managing said at least one network element based on a determined state of said at least one network element, said at least one state model capable of being dynamically defined during runtime (col. 6, lines 26-39).

As per claim 2, Vaishnavi further discloses:

- distributing said at least one poll service to at least one distributed polling gateway that
  is communicatively coupled with said at least one network element (col. 3, lines 57-66);
  and
- communicatively coupling said user interface to said at least one distributed polling gateway (col. 4, lines 28-40).

As per claims 3 and 37, Vaishnavi discloses:

• distributing said at least one poll service defined by said user (col. 5, lines 3-12).

As per claim 4, Vaishnavi discloses:

• distributing said at least one poll service defined by said user a plurality of distributed polling gateways for execution thereon (col. 3, lines 57-66).

As per claim 5, Vaishnavi discloses:

 wherein said gateways each have the ability to communicate with one or more network elements in a particular one of communication protocols selected from the group consisting of: SNMP protocol and CMIP protocol (col. 5, lines 23-42).

As per claims 6 and 38, Vaishnavi discloses:

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• wherein said at least one distributed polling gateway filters data (col. 6, lines 9-20).

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As per claim 8, Vaishnavi discloses:

• wherein said at least one distributed polling gateway executing software to evaluate a user-defined state model condition to determine whether to execute each of said at least one state model (col. 4, lines 5-22 and col. 5, lines 3-16).

As per claims 7, 39 and 52, Vaishnavi discloses:

• wherein said at least one distributed polling gateway communicating data satisfying said at least one state model to said central management system (col. 6, lines 26-42).

As per claim 9, Vaishnavi discloses:

wherein said state model condition specifies that said at least one state model is to be
 executed only for particular network elements (col. 6, lines 26-42).

As per claim 10, Vaishnavi discloses:

wherein said at least one distributed polling gateway retrieving from said at least one network element needed values for values defined for said at least one state model (col. 6, lines 9-20).

As per claim 11, Vaishnavi discloses:

• wherein said at least one distributed polling gateway executing software to evaluate one or more user-defined equations for said at least one state model utilizing the retrieved variable values (col. 4, lines 5-22 and col. 5, lines 3-16).

As per claims 12, 40 and 53, Vaishnavi discloses:

wherein said at least one distributed polling gateway executing software to evaluate one
 or more user-defined state transition conditions for said at least one state model to

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determine whether said one or more user-defined state transition conditions are satisfied (col. 4, lines 5-22 and col. 6, lines 26-42).

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As per claim 13, Vaishnavi discloses:

wherein said at least one distributed polling gateway determining that said one or more user-defined state transition conditions are not satisfied, then the state of said at least one network element remains unchanged (col. 4, lines 5-22 and col. 6, lines 26-42).

As per claims 14, 41 and 54, Vaishnavi discloses:

• wherein said at least one distributed polling gateway determining that said one or more user-defined state transition conditions are satisfied, then a state transition for said at least one network element is triggered (col. 4, lines 5-22 and col. 6, lines 26-42).

As per claim 16, Vaishnavi discloses:

• wherein said at least one distributed polling gateway determining that said one or more user-defined state transition conditions are satisfied in a user-defined number of consecutive polls of said at least one network element, then a state transition for said at least one network element is triggered (col. 4, lines 5-22 and col. 6, lines 26-42).

As per claims 15, 17, 42 and 55, Vaishnavi discloses:

• wherein one or more user-defined transition actions for said state transition are triggered in response to said state transition (col. 5, lines 3-16).

As per claims 18 and 43, Vaishnavi discloses wherein said presenting a user interface on a management system to enable a user to define at least one state model, further comprises:

• providing a user interface that allows a user to define a plurality of states within a state model for a network element (col. 4, lines 28-40 and col. 6, lines 26-42);

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• providing a user interface that allows a user to define at least one transition condition that specifies when a transition from one of said plurality of states to another of said plurality of states is to occur (col. 4, lines 28-40 and col. 6, lines 26-42); and

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providing a user interface that allows a user to define at least one transition action to be
 performed upon the occurrence of said transition (col. 4, lines 28-40 and col. 6, lines 26-42).

As per claims 19 and 44, Vaishnavi further discloses:

correlating various different models of said at least one state model (col. 6, lines 26-42).
 As per claims 20 and 45, Vaishnavi discloses:

wherein software code executes on at least one distributed polling gateway
 communicatively coupled to said central management system to perform said step of
 correlating (col. 6, lines 9-20).

As per claims 21 and 46, Vaishnavi discloses:

• wherein said software code triggers an action upon a user-defined pattern of states of said various different models being achieved (col. 5, lines 3-16 and col. 6, lines 26-42).

As per claim 23, Vaishnavi discloses wherein said at least one network element is selected from the group consisting of:

 ATM, Sonet, router, modem, CMIP EMS, switch OSS, NMS, and web server (col. 3, lines 57-66).

As per claim 24, Vaishnavi discloses:

• wherein said user interface is a graphical user interface (col. 4, lines 29-40).

As per claim 25, Vaishnavi discloses wherein said at least one state model includes:

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• software code specifying at least two user-defined states for said at least one network element (col. 4, lines 28-40 and col. 6, lines 26-42);

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- software code specifying at least one transition from a first of said at least two user defined states to a second of said at least two user-defined states (col. 4, lines 28-40 and col. 6, lines 26-42); and
- software code specifying at least one transition action to be performed upon the occurrence of said at least one transition (col. 4, lines 28-40 and col. 6, lines 26-42).

As per claim 27, Vaishnavi discloses wherein said transition action includes any one or more selected from the group consisting of:

enabling a particular poll service for said at least one network element, disabling said
particular poll service for said at least one network element, enabling a particular state
model for said at least one network element, disabling said particular state model for
said at least one network element, and triggering one or more user-defined commands to
be executed (col. 5, lines 3-16).

As per claim 28, Vaishnavi discloses wherein said executing said at least one poll service further includes:

• triggering execution of said at least one poll service in response to the occurrence of a user defined event (col. 5, lines 3-16).

As per claim 29, Vaishnavi discloses:

wherein said user-defined event includes a particular fault condition defined by a user
 (col. 4, lines 5-22 and col. 6, lines 26-42).

As per claim 30, Vaishnavi discloses:

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 wherein said at least one poll service is executed only if a user-defined activation condition for said at least one poll service is satisfied (col. 4, lines 5-22 and col. 6, lines 26-42).

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As per claim 31, Vaishnavi discloses:

• wherein said user-defined activation condition specifies that said poll service is for a particular type of network element (col. 5, lines 23-42).

As per claim 32, Vaishnavi discloses:

• wherein said central management system enables a user to dynamically define said at least one poll service during runtime (col. 4, lines 5-22 and col. 6, lines 26-42).

As per claim 33, Vaishnavi discloses:

• wherein said central management system enables a user to dynamically define said at least one state model during runtime (col. 4, lines 5-22 and col. 6, lines 26-42).

As per claim 34, Vaishnavi discloses:

wherein said central management system enables a user to dynamically modify an
existing poll service or state model during runtime (col. 4, lines 5-22 and col. 6, lines
26-42).

As per claims 49 and 61, Vaishnavi discloses:

wherein said at least one distributed polling gateway software executing on said central
management system to enable a user to define said at least one state model, wherein
once a user defines said at least one state model (col. 26-42).

As per claim 50, Vaishnavi further discloses:

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• at least one user-defined poll service that includes one or more of said at least one state model (col. 5, lines 23-42).

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As per claim 51, Vaishnavi discloses:

• software executing on said central management system to enable a user to define said at least one poll service, wherein once a user defines said at least one poll service, it is communicated to said one or more distributed gateways for execution thereon (col. 4, lines 5-22 and col. 6, lines 26-42).

As per claim **56**, Vaishnavi discloses:

• at least one pattern-based state model executing thereon to correlate various of said at least one state model (col. 7, lines 9-16).

As per claim 57, Vaishnavi discloses:

 wherein said at least one pattern-based state model specifies a user-defined pattern of states of said various models, and wherein said at least one pattern-based state model triggers an action upon said user-defined pattern of states being achieved (col. 7, lines 9-16).

As per claim 60, Vaishnavi discloses:

 wherein said user-defined number of consecutive polls is a plurality of polls (col. 5, lines 3-16).

As per claim **62**, Vaishnavi discloses:

• wherein if said user-defined state transition condition is satisfied for a user-defined number of consecutive polls of said at least one network element, then one or more

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user-defined transition actions for the user defined state transition are triggered (col. 5, lines 3-16 and col. 6, lines 26-42).

# Allowable Subject Matter

4. Claims 22, 26, 47, 58 and 63, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

5. Applicant's arguments filed March 20, 2006 have been fully considered but they are not persuasive.

#### The Office Notes the following arguments:

- a. Vaishnavi does not disclose or suggest Applicant's claimed invention of presenting a user interface nor Applicant's claimed graphical user interface (independent claims 1 and 35 ad dependent claim 35).
- b. Vaishnavi does not disclose or suggest Applicant's claimed polling gateway (independent claims 35 and 59).
- c. Vaishnavi does not disclose or suggest the concept of a number of consecutive polls (independent claims 59 and dependent claims 16, 60 and 62).

In response to:

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(a), Applicant argues that Vaishnavi does not disclose or suggest presenting a graphical user interface as claimed. However, the Examiner disagrees. Vaishnavi discloses a network manager that polls devices to receive information regarding the device through a general-purpose computer (workstation, personal computer, etc.). Although, Vaishnavi does not explicitly disclose a user interface, it is well known in the art that a general-purpose computer has a user interface that allows a user to input information (abstract and col. 4, lines 28-40). Therefore, Vaishnavi discloses a graphical user interface.

(b)-(c), Applicant argues that Vaishnavi does not disclose or suggest a polling gateway and the concept of a number of consecutive polls as claimed. However, the Examiner disagrees. Vaishnavi discloses a polling manager (gateway) that poll devices connected to the network in order to receive status information of these devices. The polling manager also includes a timer or an internal clock to transmit a poll request at a given time (col. 5, lines 3-16). Therefore, Vaishnavi discloses a polling gateway and the concept of consecutive polls.

#### Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LaShonda T. Jacobs whose telephone number is 571-272-4004.

The examiner can normally be reached on 8:30 A.M.-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LaShonda T Jacobs Examiner

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ltj

May 22, 2006

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100